

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

22204

7590

12/03/2002

NIXON PEABODY, LLP 8180 GREENSBORO DRIVE SUITE 800 MCLEAN, VA 22102

EX.	AMINER
BERRY	Y, RENEE R
ART UNIT	CLASS-SUBCLASS

438-784000

2818
DATE MAILED: 12/03/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/466,828	12/20/1999	SHUNPEI YAMAZAKI	0756-2077	1635

TITLE OF INVENTION: INSULATING FILM AND METHOD OF PRODUCING SEMICONDUCTOR DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$0	\$0	\$0	03/03/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



## PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

Fax (703)746-4000

appropriate. All further of	d below or directed other	ine Palent, advance orde	re and notification	of maintenance f	required). Blocks I through 4 less will be mailed to the curren dress; and/or (b) indicating a sep	• • • • • • • • • • • • • • • • • • •
CURRENT CORRESPONDE 22204 NIXON PEAB 8180 GREENSB	7590 12/03/200 ODY, LLP		e Block 1)	Fee(s) Transm	ate of mailing can only be used fittal. This certificate cannot papers. Each additional paper, must have its own certificate of	be used for any other such as an assignment or mailing or transmission.
SUITE 800 MCLEAN, VA 2				I hereby certify United States Po envelope address transmitted to the	Certificate of Mailing or Tran y that this Fee(s) Transmittal is ostal Service with sufficient posta ssed to the Box Issue Fee address the USPTO, on the date indicated by	being deposited with the age for first class mail in an above, or being facsimile
						(Depositor's name)
						(Signature)
					···	(Date)
APPLICATION NO.	FILING DATE	FIR	RST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/466,828	12/20/1999		HUNPEI YAMAZ		0756-2077	1635
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nonprovisional	. NO	\$0		\$0	\$0	03/03/2003
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BERRY,	RENEE R .	2818	438-78400	0		
CFR 1.363).  Change of correspon Address form PTO/SB/ "Fee Address" indica PTO/SB/47; Rev 03-02 Number is required.	tion (or "Fee Address" Ind or more recent) attached.	of Correspondence ication form Use of a Customer	the names of up or agents OR, single firm (ha attorney or age registered paten is listed, no nam	on the patent from to 3 registered paternatively, (2) ving as a memb nt) and the name attorneys or age will be printed.	the name of a er a registered es of up to 2	
PLEASE NOTE: Unless been previously submitte (A) NAME OF ASSIGN	a to the open on is being	elow, no assignee data w submitted under separate (B) RE	vill appear on the pector of the cover. Completion ESIDENCE: (CITY	atent. Inclusion of n of this form is N and STATE OR (	,	nment.
4a. The following fee(s) are			vment of Fee(s):	Individual	Corporation or other private gr	oup entity  government
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□ Publication Fee		_	ment by credit card	• •		
	Copies	· □ The	Commissioner is h	ereby authorized b	by charge the required fee(s), or co	redit any overpayment, to
Commissioner for Patents i	s requested to apply the lss				isly paid issue fee to the application	
Authorized Signature)	<del>-</del>	(Date)		•	· · · · · · · · · · · · · · · · · · ·	***************************************
other than the applicant; interest as shown by the re	d Publication Fee (if requ a registered attorney or a ecords of the United States	agent; or the assignee o	r other party in			
This collection of inform obtain or retain a benefit application. Confidentialitiestimated to take 12 mine completed application for case. Any comments on suggestions for reducing Patent and Trademark Of NOT SEND FEES OR Commissioner for Patents.	ation is required by 37 CF by the public which is to y is governed by 35 U.S.C tles to complete, including m to the USPTO. Time the amount of time you this burden, should be sen fice, U.S. Department of C. COMPLETED FORMS. Washington, DC 20231.	FR 1.311. The informatic file (and by the USPTC 122 and 37 CFR 1.14. The gathering, preparing, and will vary depending upon require to complete that to the Chief Informatic commerce, Washington, IS TO THIS ADDRES	on is required to D to process) an This collection is d submitting the n the individual his form and/or on Officer, U.S. D.C. 20231. DO S. SEND TO:			

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09/466,828	1	2/20/1999	SHUNPEI YAMAZAKI	0756-2077	1635
22204	7590	12/03/2002		EXAMIN	ER
NIXON PEAE 8180 GREENSI				BERRY, RE	NEE R
SUITE 800	SOKO DKI	IVE		ART UNIT	PAPER NUMBER
MCLEAN, VA UNITED STAT				2818	
ONLEDSIAL	ES			DATE MAILED: 12/03/2002	

# Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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09/466,828	09/466,828 12/20/1999		SHUNPEI YAMAZAKI	0756-2077	1635
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NIXON PEAE 8180 GREENSI				BERRY, RE	NEE R
SUITE 800				ART UNIT	PAPER NUMBER
MCLEAN, VA JNITED STAT				2818	
			DATE MAIL FD: 12/03/2002		

# Notice of Possible Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there may be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003: Notice of Proposed Rulemaking, 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of any fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

## Notice of Allowability

Application No.

Applicant(s)

09/466,828

plicatit(8)

Examiner

Renee Berry

Art Unit 2818

Yamazaki et al.

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. X This communication is responsive to *November 5, 2002* 2. X The allowed claim(s) is/are 1-30 3. X The drawings filed on \_\_\_\_\_\_ Dec. 20, 1999\_\_\_\_ are accepted by the Examiner. 4. Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). b) Some\* a) X All c) None of the: 1. X Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 08/198,054 3. U Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \*Certified copies not received: 5. Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). (a) The translation of the foreign language provisional application has been received. 6. Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No. (b) including changes required by the proposed drawing correction filed approved by the examiner. (c) I including changes required by the attached Examiner's Amendment/Comment or in the Office action of Paper No. Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson. 9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1 Notice of References Cited (PTO-892) 2 Notice of Informal Patent Application (PTO-152) 3 Notice of Draftsperson's Patent Drawing Review (PTO-948) 4 Interview Summary (PTO-413), Paper No. \_\_\_\_ . 5 Information Disclosure Statement(s) (PTO-1449), Paper No(s). 6 Examiner's Amendment/Comment 7 Examiner's Comment Regarding Requirement for Deposit of Biological 8 - Examiner's Statement of Reasons for Allowance Material 9 Other David Nelms Supervisory Patent Examiner

Technology Center 2800

Application/Control Number: 09/466,828

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Art Unit: 2818

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: There is no prior art

of record that teaches or suggests a method of making a semiconductor device by forming a gate

insulating film containing halogen at a concentration of 5 x 1020 cm-3 or less and carbon at a

concentration of 5 x 1019 cm-3 or less.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to R.R. Berry whose telephone number is (703) 305-4544.

David Nelms
Supervisory Patent Examiner
Technology Center 2800

Page 2

LASUM RRB

November 30, 2002